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ART UNIT	PAPER NUMBER
2618	

NOTIFICATION DATE	DELIVERY MODE
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)
Office Action Summary	10/628,950	WEI ET AL.
	Examiner	Art Unit	
	Shaima Q. Aminzay	2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>08 May 2007</u>.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1-41</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>1-41</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____.

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

DETAILED ACTION

This office action is in response to applicant's amendment/remarks filed May 8, 2007.

Response to Arguments

1. Response to arguments with respect objected claims 16-41 and specification is moot as the amendments to the claims and specification overcomes the objections, therefore, the claims and specification objections withdrawn.

2. Response to arguments with respect to rejected claims 1-41 is moot as the amendment to independent claims 1, 16, and 30 overcomes the Claim Rejections -35 U.S.C.102(b), therefore, the Claim Rejections - 35 USC 102(b) with respect to claims 1-41 withdrawn.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as
> set forth in section 102 of this title, if the differences between the subject matter sought to be
> patented and the prior art are such that the subject matter as a whole would have been obvious at
> the time the invention was made to a person having ordinary skill in the art to which said subject
> matter pertains. Patentability shall not be negatived by the manner in which the invention was
> made.

3.   Claims 1-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Damnjanovic (Damnjanovic et al., US Publication No. 2003/0050,086) in view of Eibling

(Eibling et al., US Patent No. 6609007).

Regarding claim 1, Damnjanovic discloses a method for controlling power in a

wireless communication system having multiple reverse-link communication channels

(e.g. Figures 1-11, paragraph [2], lines 1-3, [3], lines 1-5, [15], lines 8-12, [22], lines 1-

4, [33], lines 1-10, [44], lines 1-13, the transmission power control in a wireless

communication system with plurality of reverse link (mobiles 100) communication

channels), the method comprising:

adjusting power levels of a first set of channels and a corresponding pilot channel;

(paragraph [12], lines 6-11, [15], lines 8-12, [52], lines 1-4, [72], lines 4-8, [88], lines

1-8, the reverse channels (first set) power level is being adjusted and the related pilot

channels),

according to a fixed ratio, the first set of channels including at least one traffic channel

(paragraph, [69], lines 1-13, [88], lines 1-5, the reverse channels (first set) includes the traffic channel with respect to a fixed rate (ratio));

and adjusting traffic-to-pilot (T/P) ratios for one or more remaining channels *[independently]* of the power level of the pilot channel *(paragraph [7], lines 1-23, [15], lines 8-12, [47], lines 1-7, [72], lines 8-17, [88], lines 1-8, the reverse channels traffic to pilot ratios are being adjusted)*.

Damnjanovic does not specifically teach adjusting traffic to pilot ratio of channels independent of the power level of the pilot channel, however, Damnjanovic teaches the traffic to pilot ratios of the reverse channels are being adjusted *(paragraph [7], lines 1-23, [15], lines 8-12, [47], lines 1-7, [72], lines 8-17, [88], lines 1-8)*.

In a related art dealing with a wireless communication system traffic and pilot ratios *(e.g., col. 1, lines 24-27, 54-60, col. 2, lines 1-7, 58-67)*, Eibling teaches adjusting the traffic to pilot ratio of channels independent of the power level of the pilot channel *(e.g., col. 1, lines 24-27, 54-60, col. 2, lines 1-7, 58-67, col. 3, lines 1-5, 31-45, col. 7, lines 6-17, adjusting the traffic to pilot fraction (ratio) of channels without the pilot channel power)*.

It would have been obvious to one of ordinary skill in the art at the time invention was made to include Eibling's adjusting traffic to pilot ratios of channels without the pilot channel power into Damnjanovic's wireless communication system to provide a communication system with adjustable transmission power that increases the "capacity of the overall wireless communication system" *(Eibling, e.g., col. col. 2, lines 4-41, col. 3, lines 39-45)*.

Regarding claim 16, Damnjanovic discloses system for controlling power in a wireless

communication system having multiple reverse-link communication channels *(e.g.*

Figures 1-11, paragraph [2], lines 1-3, [3], lines 1-5, [15], lines 8-12, [22], lines 1-4,

[33], lines 1-10, [44], lines 1-13, the transmission power control in a wireless

communication system with plurality of reverse link (mobiles 100) communication

channels), comprising:

a base station; and a mobile station coupled to the base station via a wireless

communication link *(Figures 1-4, paragraph [18] through [22], [29], lines 1-9, [32],*

lines 1-10, [72], lines 1-17, the base station (200) and mobile station (100) are connected

via wireless communication link);

wherein the base station is configured to receive data from the mobile station on a

plurality of reverse-link channels on the wireless communication link *(Figures 1-4,*

paragraph [18] through [22], [29], lines 1-9, [32], lines 1-10, [33], lines 1-2, [40], lines

1-6, [41], lines 1-12, [72], lines 1-17, the base station receives data from mobile via

multiple reverse link channels in a wireless communication system);

and wherein the base station is configured to adjust a power level for a first set of

reverse-link channels including at least one traffic channel and a power level for a pilot

channel according to a fixed ratio *(paragraph, [69], lines 1-13, [88], lines 1-5, the*

reverse channels (first set) includes the traffic channel with respect to a fixed rate

(ratio)),

and to *[separately]* adjust a traffic-to-pilot (T/P) ratio for each of one or more additional

reverse-link channels *(paragraph [7], lines 1-23, [15], lines 8-12, [47], lines 1-7, [72],*

lines 8-17, [88], lines 1-8, the reverse channels traffic to pilot ratios are being adjusted).

Damnjanovic does not specifically teach adjusting traffic to pilot ratio of channels .

independent of the power level of the pilot channel, however, Damnjanovic teaches the

traffic to pilot ratios of the reverse channels are being adjusted *(paragraph [7], lines 1-*

23, [15], lines 8-12, [47], lines 1-7, [72], lines 8-17, [88], lines 1-8).

In a related art dealing with a wireless communication system traffic and pilot ratios

(e.g., col. 1, lines 24-27, 54-60, col. 2, lines 1-7, 58-67), Eibling teaches adjusting the

traffic to pilot ratio of channels independent of the power level of the pilot channel *(e.g.,*

col. 1, lines 24-27, 54-60, col. 2, lines 1-7, 58-67, col. 3, lines 1-5, 31-45, col. 7, lines 6-

17, adjusting the traffic to pilot fraction (ratio) of channels without the pilot channel

power).

It would have been obvious to one of ordinary skill in the art at the time invention was

made to include Eibling's adjusting traffic to pilot ratios of channels without the pilot

channel power into Damnjanovic's wireless communication system to provide a

communication system with adjustable transmission power that increases the "capacity of

the overall wireless communication system" *(*Eibling, *e.g., col. col. 2, lines 4-41, col. 3,*

lines 39-45).

Regarding claim 30, Damnjanovic discloses a base station operable to communicate

with a mobile station via a wireless communication channel *(Figures 1-4, paragraph*

[18] through [22], [29], lines 1-9, [32], lines 1-10, [72], lines 1-17, the base station

(200) and mobile station (100) are connected via wireless communication link); wherein

the base station comprises:

a processing subsystem *(Figures 1, 3, and 4, paragraph [18], [20], [21], [22], [29], lines*

1-14, [40], lines 1-18, the base station controller 202 (processing subsystem));

and a transceiver subsystem coupled to the processing subsystem *(Figure 4, paragraph*

[18], [20], [21], [22], [29], lines 1-14, [40], lines 1-18, the base station transceiver

subsystem (204, and the transceiver/antenna) connected to the base processing subsystem

(station controller 202));

wherein the transceiver subsystem is configured to receive signals on a first set of

reverse-link channels including at least one traffic channel *(paragraph [40], lines 1-18,*

[44], lines 1-3, [70], lines 5-10, lines 20-22, page 14, left column lines 3-5),

a pilot channel and one or more additional reverse-link channels *(paragraph [40], lines*

1-18, [70], lines 5-10, lines 20-22, [072], lines 1-17, [79], lines 1-15, [97], lines 1-5);

and wherein the base station is configured to adjust power levels for the first set of

reverse-link channels and a power level for the pilot channel according to a fixed ratio

(paragraph [15], lines 8-12, [70], lines 5-10, lines 20-22, [80], lines 1-4, [81], lines 1-4,

[96], lines 1-7),

and to *[separately]* adjust a traffic-to-pilot (T/P) ratio for each of the one or more

additional reverse-link channels *(paragraph [7], lines 1-23, [15], lines 8-12, [47], lines*

1-7, [72], lines 8-17, [88], lines 1-8, the reverse channels traffic to pilot ratios are being

adjusted).

Damnjanovic does not specifically teach adjusting traffic to pilot ratio of channels

independent of the power level of the pilot channel, however, Damnjanovic teaches the

traffic to pilot ratios of the reverse channels are being adjusted *(paragraph [7], lines 1-*

23, [15], lines 8-12, [47], lines 1-7, [72], lines 8-17, [88], lines 1-8).

In a related art dealing with a wireless communication system traffic and pilot ratios

(e.g., col. 1, lines 24-27, 54-60, col. 2, lines 1-7, 58-67), Eibling teaches adjusting the

traffic to pilot ratio of channels independent of the power level of the pilot channel *(e.g.,*

col. 1, lines 24-27, 54-60, col. 2, lines 1-7, 58-67, col. 3, lines 1-5, 31-45, col. 7, lines 6-

17, adjusting the traffic to pilot fraction (ratio) of channels without the pilot channel

power).

It would have been obvious to one of ordinary skill in the art at the time invention was

made to include Eibling's adjusting traffic to pilot ratios of channels without the pilot

channel power into Damnjanovic's wireless communication system to provide a

communication system with adjustable transmission power that increases the "capacity of

the overall wireless communication system" (Eibling, *e.g., col. col. 2, lines 4-41, col. 3,*

lines 39-45).

Regarding claim 2, Damnjanovic in view of Eibling teach all the limitations of claim

1, and further, Damnjanovic teaches maintaining ratios of the power levels of the first set

of channels and the pilot channel while adjusting the power levels of the first set of

channels and the pilot channel *(paragraph [52], lines 1-4, [70], lines 5-10, lines 20-22,*

[80], lines 1-4, [81], lines 1-4, [72], lines 1-17, [96], lines 1-7)

Regarding claims 3 and 18, Damnjanovic in view of Eibling teach all the limitations

of claims 1, 16, and further, Damnjanovic teaches wherein the first set of channels

comprises a single channel wherein adjusting the power levels of the first set of channels

and the corresponding pilot channel comprises determining whether data received on the

single channel contains errors *(see for example, Figures 1 and 3, paragraph [003], lines*

1-14, [005], lines 1-8, [036], lines 1-15, [040], lines 1-18, [051], lines 1-7, [072], lines

1-17, [079], lines 1-15, [097], lines 1-5),

and if the data received on the single channel contains errors, incrementing the power

levels of the single channel and the corresponding pilot channel, and if the data received

on the single channel does not contain errors, decrementing the power levels of the single

channel and the corresponding pilot channel *(see for example, paragraph [007], lines 1-*

23, [017], lines 1-25, [045], lines 1-16, [048], lines 1-7, [049], lines 1-13, [050], lines

1-19, [078], lines 1-13, [080], lines 1-19, [081], lines 1-14, [082], lines 1-20, [084], lines

1-18, [086], lines 1-24).

Regarding claims 4 and 19, Damnjanovic in view of Eibling teach all the limitations

of claims 3, 18, and further, Damnjanovic teaches wherein determining whether the data

received on the single channel contains errors is performed by a base station *(see for*

example, Figures 1 and 3, paragraph [003], lines 1-14, [040], lines 1-18, [072], lines 1-

17, [079], lines 1-15, [097], lines 1-5, the base station transceiver subsystem (204)

connected to the antenna receiving reverse-link channel signals), wherein the method

further comprises the base station sending a message to a mobile station to increment or

decrement the power levels of the single channel and the corresponding pilot channel *(see*

for example, paragraph [007], lines 1-23, [017], lines 1-25, [045], lines 1-16, [048],

lines 1-7, [049], lines 1-13, [050], lines 1-19, [078], lines 1-13, [080], lines 1-19, [081],

lines 1-14, [082], lines 1-20, [084], lines 1-18, [086], lines 1-24).

Regarding claims 5 and 20, Damnjanovic in view of Eibling teach all the limitations

of claims 4, 19, and further, Damnjanovic teaches wherein the mobile station is

configured to increment or decrement the power levels of the single reverse-link channel

and the pilot channel in accordance with the mobile station in response to the message

(see for example, paragraph [007], lines 1-23, [017], lines 1-25, [045], lines 1-16, [048

], lines 1-7, [049], lines 1-13, [050], lines 1-19, [078], lines 1-13, [080], lines 1-19,

[081], lines 1-14, [082], lines 1-20, [084], lines 1-18, [086], lines 1-24).

Regarding claim 6, Damnjanovic in view of Eibling teach all the limitations of claim

3, and further, Damnjanovic teaches wherein the single channel comprises a voice

channel *(see for example, paragraph [4], lines 17-20, [5], lines 1-7, [41], lines 1-7).*

Regarding claims 7 and 21, Damnjanovic in view of Eibling teach all the limitations

of claims 1, 16, and further, Damnjanovic teaches wherein the first set of channels

comprises multiple channels *(see for example, Figures 1-11, paragraph [003], lines 1-14,*

[040], lines 1-18, [072], lines 1-17, [079], lines 1-15, [097], lines 1-5), wherein adjusting

the power levels of the first set of channels *(see for example, Figures 1 and 3, paragraph*

[003], lines 1-14, [040], lines 1-18, [072], lines 1-17, [079], lines 1-15, [097], lines 1-5)

and the corresponding pilot channel comprises determining for each channel in the first

set whether data received on the single channel contains errors *(see for example, Figures*

1 and 3, paragraph [003], lines 1-14, [040], lines 1-18, [005], lines 1-8, [036], lines 1-

15, [040], lines 1-18, [051], lines 1-7, [072], lines 1-17, [079], lines 1-15, [097], lines 1-

5) and determining a composite adjustment of the power levels of the first set of channels

and the corresponding pilot channel based on errors received on the multiple channels

(see for example, Figures 1 and 3, paragraph [003], lines 1-14, [040], lines 1-18, [005],

lines 1-8, [036], lines 1-15, [040], lines 1-18, [051], lines 1-7, [072], lines 1-17, [079],

lines 1-15, [097], lines 1-5).

Regarding claims 8 and 22, Damnjanovic in view of Eibling teach all the limitations

of claims 7, 21, and further, Damnjanovic teaches wherein determining the composite

adjustment of the power levels of the first set of channels *(see for example, Figures 1 and*

3, paragraph [003], lines 1-14, [040], lines 1-18, [052], lines 1-14, [055], lines 1-21,

[072], lines 1-17, [079], lines 1-15, [097], lines 1-5) and the corresponding pilot channel

comprises: for each channel in the first set, determining whether data received on the

channel contains errors *(see for example, Figures 1 and 3, paragraph [003], lines 1-14,*

[040], lines 1-18, [005], lines 1-8, [036], lines 1-15, [040], lines 1-18, [051], lines 1-7,

[072], lines 1-17, [079], lines 1-15, [097], lines 1-5), if the data received on the channel

contains errors, determining a corresponding incremental power level adjustment, and if

the data received on the single channel does not contains errors *(see for example, Figures*

1 and 3, paragraph [003], lines 1-14, [040], lines 1-18, [005], lines 1-8, [036], lines 1-15, [040], lines 1-18, [051], lines 1-7, [072], lines 1-17, [079], lines 1-15, [097], lines 1-5), determining a corresponding decremental power level adjustment; and computing the composite adjustment as a function of the incremental and decremental power level adjustments for the channels in the first set *(see for example, Figures 1 and 3, paragraph [003], lines 1-14, [040], lines 1-18, [005], lines 1-8, [036], lines 1-15, [040], lines 1-18, [051], lines 1-7, [072], lines 1-17, [079], lines 1-15, [097], lines 1-5).*

Regarding claim 9, Damnjanovic in view of Eibling teach all the limitations of claim 8, and further, Damnjanovic teaches wherein the base station is configured to cause the power levels of the single reverse-link channel *(see for example, paragraph [017], lines 1-25, [040], lines 1-18, [005], lines 1-8, [036], lines 1-15, [040], lines 1-18, [051], lines 1-7, [072], lines 1-17, [079], lines 1-15, [088], lines 1-18, [096], lines 1-16, [097], lines 1-5)* and the pilot channel to be incremented or decremented by sending corresponding messages to the mobile station *(see for example, paragraph [017], lines 1-25, [040], lines 1-18, [005], lines 1-8, [036], lines 1-15, [040], lines 1-18, [051], lines 1-7, [072], lines 1-17, [079], lines 1-15, [088], lines 1-18, [096], lines 1-16, [097], lines 1-5).*

Regarding claims 10 and 24, Damnjanovic in view of Eibling teach all the limitations of claims 8, 22, and further, Damnjanovic teaches wherein the function of the incremental and decremental power level adjustments for the channels in the first set comprises adding the maximum incremental power level adjustment to the minimum decremental

power level adjustment *(see for example, paragraph [017], lines 1-25, [040], lines 1-18, [005], lines 1-8, [036], lines 1-15; [040], lines 1-18, [051], lines 1-7, [072], lines 1-17, [079], lines 1-15, [088], lines 1-18, [096], lines 1-16, [097], lines 1-5).*

Regarding claims 11 and 25, Damnjanovic in view of Eibling teach all the limitations of claims 8, 22, and further, Damnjanovic teaches wherein the function of the incremental and decremental power level adjustments for the channels in the first set comprises adding the minimum incremental power level adjustment to the maximum decremental power level adjustment wherein the function of the incremental *(see for example, paragraph [017], lines 1-25, [040], lines 1-18, [005], lines 1-8, [036], lines 1-15, [040], lines 1-18, [051], lines 1-7, [072], lines 1-17, [079], lines 1-15, [088], lines 1-18, [096], lines 1-16, [097], lines 1-5).* and decremental power level adjustments for the channels in the first set comprises adding the minimum incremental power level adjustment to the maximum decremental power level adjustment *(see for example, paragraph [017], lines 1-25, [040], lines 1-18, [005], lines 1-8, [036], lines 1-15, [040], lines 1-18, [051], lines 1-7, [072], lines 1-17, [079], lines 1-15, [088], lines 1-18, [096], lines 1-16, [097], lines 1-5).*

Regarding claims 12 and 26, Damnjanovic in view of Eibling teach all the limitations of claims 8, 22, and further, Damnjanovic teaches wherein the function of the incremental and decremental power level adjustments is constrained to a limited number of quantized levels *(see for example, paragraph [007], lines 1-23, [017], lines 1-25, [045], lines 1-16,*

[048], lines 1-7, [049], lines 1-13, [050], lines 1-19, [078], lines 1-13, [080], lines 1-19,

[081], lines 1-14, [082], lines 1-20, [084], lines 1-18, [086], lines 1-24).

Regarding claim 13, Damnjanovic in view of Eibling teach all the limitations of claim

1, and further, Damnjanovic teaches wherein adjusting the T/P ratios for each of the one

or more remaining channels comprises determining whether data received on the channel

contains errors *(see for example, Figures 1 and 3, paragraph [003], lines 1-14, [040],*

lines 1-18, [005], lines 1-8, [036], lines 1-15, [040], lines 1-18, [051], lines 1-7, [072],

lines 1-17, [079], lines 1-15, [097), and if the data received on the channel contains

errors incrementing the T/P ratio for the channel, and if the data received on the channel

does not contain errors, decrementing the T/P ratio for the channel *(see for example,*

Figures 1 and 3, paragraph [003], lines 1-14, [040], lines 1-18, [005], lines 1-8, [036],

lines 1-15, [040], lines 1-18, [051], lines 1-7, [072], lines 1-17, [079], lines 1-15, [097],

lines 1-5).

Regarding claim 14, Damnjanovic in view of Eibling teach all the limitations of claim

13, and further, Damnjanovic teaches wherein determining whether the data received on

the channel contains errors *(see for example, Figures 1 and 3, paragraph [003], lines 1-*

14, [007], lines 1-23, [017], lines 1-25,   [040], lines 1-18, [045], lines 1-16, [048],

[049], [050], [072], lines 1-17, [075], [078], [079], lines 1-15, [080], [081], [082],

[086], and [084], [097], lines 1-5) and incrementing or decrementing the T/P ratio for

the channel is performed by a base station, wherein the method further comprises the

base station sending a message to a mobile station indicating the T/P ratio for the channel

(see for example, Figures 1 and 3, paragraph [003], lines 1-14, [007], lines 1-23, [017],

lines 1-25, [040], lines 1-18, [045], lines 1-16, [048], [049], [050], [072], lines 1-17,

[075], [078], [079], lines 1-15, [080], [081], [082], [086], and [084], [097], lines 1-5).

Regarding claim 15, Damnjanovic in view of Eibling teach all the limitations of claim

13, and further, Damnjanovic teaches the mobile station receiving the message and

selecting transmission characteristics for the channel in accordance with the T/P ratio for

the channel *(see for example, Figures 1 and 3, paragraph [003], lines 1-14, [007], lines*

1-23, [017], lines 1-25, [040], lines 1-18, [045], lines 1-16, [048], [049], [050], [072],

lines 1-17, [075], [078], [079], lines 1-15, [080], [081], [082], [086], and [084], [097],

lines 1-5).

Regarding claim 17, Damnjanovic in view of Eibling teach all the limitations of claim

16, and further, Damnjanovic teaches wherein the base station is configured to adjust the

power levels for the first set of reverse-link channels and the pilot channel to maintain

ratios of the power levels for the first set of reverse-link channels to the power level of

the pilot channel *(Figures 1 and 3, paragraph [3], lines 1-14, [40], lines 1-18, [52], lines*

1-14, [55], lines 1-21, [72], lines 1-17, [79], lines 1-15, [97], lines 1-5).

Regarding claim 23, Damnjanovic in view of Eibling teach all the limitations of claim

22, and further, Damnjanovic teaches wherein the function of the incremental and

decremental power level adjustments for the channels in the first set comprises adding

the maximum incremental power level adjustment and all of the decremental power level

adjustments.

Regarding claim 27, Damnjanovic in view of Eibling teach all the limitations of claim

16, and further, Damnjanovic teaches wherein the base station is configured to determine

whether data received on each additional reverse-link channel contains errors , and if the

data received on the additional reverse-link channel contains errors, incrementing the T/P

ratio of the additional reverse-link channel, and if the data received on the additional

reverse-link channel does not, decrementing the T/P ratio of the additional reverse-link

channel

Regarding claim 28, Damnjanovic in view of Eibling teach all the limitations of claim

27, and further, Damnjanovic teaches wherein the base station is configured to send

messages indicating the incremented or decremented T/P ratio of the additional reverse-

link channel to the mobile station *(see for example, Figures 1 and 3, paragraph [003],*

lines 1-14, [007], lines 1-23, [017], lines 1-25,   [040], lines 1-18, [045], lines 1-16,

[048], [049], [050], [072], lines 1-17, [075], [078], [079], lines 1-15, [080], [081],

[082], [086], and [084], [097], lines 1-5).

Regarding claim 29, Damnjanovic in view of Eibling teach all the limitations of claim

28, and further, Damnjanovic teaches wherein the mobile station is configured to set a

power level of the additional reverse-link channel in accordance with the messages *(see*

for example, Figures 1 and 3, paragraph [003], lines 1-14, [007], lines 1-23, [017], lines

1-25, [040], lines 1-18, [045], lines 1-16, [048], [049], [050], [072], lines 1-17, [075],

[078], [079], lines 1-15, [080], [081], [082], [086], and [084], [097], lines 1-5).

Regarding claim 31, Damnjanovic in view of Eibling teach all the limitations of claim

30, and further, Damnjanovic teaches wherein the base station is configured to adjust the

power levels for the single reverse-link channel and the pilot channel to maintain a ratio

of the power level for the single reverse-link channel to the power level of the pilot

channel *(see for example, Figures 1 and 3, paragraph [003], lines 1-14, [040], lines 1-*

18, [052], lines 1-14, [055], lines 1-21, [072], lines 1-17, [079], lines 1-15, [097], lines

1-5, the base station adjust power level for the reverse-link and pilot channel)

Regarding claim 32, Damnjanovic in view of Eibling teach all the limitations of claim

30, and further, Damnjanovic teaches wherein the base station is configured to determine

whether data received on the single reverse-link channel contains errors *(see for example,*

Figures 1 and 3, paragraph [003], lines 1-14, [005], lines 1-8, [036], lines 1-15, [040],

lines 1-18, [051], lines 1-7, [072], lines 1-17, [079], lines 1-15, [097], lines 1-5), and if

the data received on the single reverse-link channel contains errors, to cause the power

levels of the single reverse-link channel and the pilot channel to be incremented, and if

the data received on the single reverse-link channel does not contain errors, to cause the

power levels of the single reverse-link channel and the pilot channel to be decremented

(see for example, paragraph [007], lines 1-23, [017], lines 1-25, [045], lines 1-16, [048

], lines 1-7, [049], lines 1-13, [050], lines 1-19, [078], lines 1-13, [080], lines 1-19,

[081], lines 1-14, [082], lines 1-20, [084], lines 1-18, [086], lines 1-24).

Regarding claim 33, Damnjanovic in view of Eibling teach all the limitations of claim 30,

and further, Damnjanovic teaches wherein the base station is configured to cause the

power levels of the single reverse-link channel *(see for example, Figures 1 and 3,*

paragraph [003], lines 1-14, [040], lines 1-18, [072], lines 1-17, [079], lines 1-15,

[097], lines 1-5, the base station transceiver subsystem (204) connected to the antenna

receiving reverse-link channel signals) and the pilot channel to be incremented or

decremented by sending corresponding messages to a mobile station which is configured

to increment or decrement the power levels of the single reverse-link channel and the

pilot channel in accordance with the messages *(see for example, paragraph [007], lines*

1-23, [017], lines 1-25, [045], lines 1-16, [048], lines 1-7, [049], lines 1-13, [050], lines

1-19, [078], lines 1-13, [080], lines 1-19, [081], lines 1-14, [082], lines 1-20, [084], lines

1-18, [086], lines 1-24).

Regarding claim 34, Damnjanovic in view of Eibling teach all the limitations of claim 30,

and further, Damnjanovic teaches wherein the first set of channels comprises multiple

channels *(see for example, Figures 1-11, paragraph [003], lines 1-14, [040], lines 1-18,*

[072], lines 1-17, [079], lines 1-15, [097], lines 1-5), wherein the base station is

configured to adjust the power levels of the first set of channels *(see for example, Figures*

1 and 3, paragraph [003], lines 1-14, [040], lines 1-18, [072], lines 1-17, [079], lines 1-15, [097], lines 1-5) and the corresponding pilot channel by determining for each channel in the first set whether data received on the single channel contains errors *(see for example, Figures 1 and 3, paragraph [003], lines 1-14, [040], lines 1-18, [005], lines 1-8, [036], lines 1-15, [040], lines 1-18, [051], lines 1-7, [072], lines 1-17, [079], lines 1-15, [097], lines 1-5)* and determining a composite adjustment of the power levels of the first set of channels and the corresponding pilot channel based on errors received on the multiple channels *(see for example, Figures 1 and 3, paragraph [003], lines 1-14, [040], lines 1-18, [005], lines 1-8, [036], lines 1-15, [040], lines 1-18, [051], lines 1-7, [072], lines 1-17, [079], lines 1-15, [097], lines 1-5).*

Regarding claim 35, Damnjanovic in view of Eibling teach all the limitations of claim 34, and further, Damnjanovic teaches wherein the base station is configured to determine the composite adjustment of the power levels of the first set of channels and the corresponding pilot channel by: for each channel in the first set *(see for example, Figures 1 and 3, paragraph [003], lines 1-14, [040], lines 1-18, [052], lines 1-14, [055], lines 1-21, [072], lines 1-17, [079], lines 1-15, [097], lines 1-5)*, determining whether data received on the channel contains errors *(see for example, Figures 1 and 3, paragraph [003], lines 1-14, [040], lines 1-18, [005], lines 1-8, [036], lines 1-15, [040], lines 1-18, [051], lines 1-7, [072], lines 1-17, [079], lines 1-15, [097], lines 1-5)*, if the data received on the channel contains errors, determining a corresponding incremental power level adjustment, and if the data received on the single channel does not contain errors *(see for*

example, Figures 1 and 3, paragraph [003], lines 1-14, [040], lines 1-18, [005], lines 1-8, [036], lines 1-15, [040], lines 1-18, [051], lines 1-7, [072], lines 1-17, [079], lines 1-15, [097], lines 1-5), determining a corresponding decremental power level adjustment; and computing the composite adjustment as a function of the incremental and decremental power level adjustments for the channels in the first set *(see for example, Figures 1 and 3, paragraph [003], lines 1-14, [040], lines 1-18, [005], lines 1-8, [036], lines 1-15, [040], lines 1-18, [051], lines 1-7, [072], lines 1-17, [079], lines 1-15, [097], lines 1-5).*

Regarding claim 36, Damnjanovic in view of Eibling teach all the limitations of claim 35, and further, Damnjanovic teaches wherein the function of the incremental and decremental power level adjustments for the channels in the first set comprises adding the maximum incremental power level adjustment and all of the decremental power level adjustments *(see for example, paragraph [017], lines 1-25, [040], lines 1-18, [005], lines 1-8, [036], lines 1-15, [040], lines 1-18, [051], lines 1-7, [072], lines 1-17, [079], lines 1-15, [088], lines 1-18, [096], lines 1-16, [097], lines 1-5).*

Regarding claim 37, Damnjanovic in view of Eibling teach all the limitations of claim 35, and further, Damnjanovic teaches wherein the function of the incremental and decremental power level adjustments for the channels in the first set comprises adding the maximum incremental power level adjustment to the minimum decremental power level adjustment *(see for example, paragraph [017], lines 1-25, [040], lines 1-18, [005], lines*

1-8, [036], lines 1-15, [040], lines 1-18, [051], lines 1-7, [072], lines 1-17, [079], lines

1-15, [088], lines 1-18, [096], lines 1-16, [097], lines 1-5).

Regarding claim 38, Damnjanovic in view of Eibling teach all the limitations of claim 35,

and further, Damnjanovic teaches wherein the function of the incremental and

decremental power level adjustments for the channels in the first set comprises adding the

minimum incremental power level adjustment to the maximum decremental power level

adjustment *(see for example, paragraph [017], lines 1-25, [040], lines 1-18, [005], lines*

1-8, [036], lines 1-15, [040], lines 1-18, [051], lines 1-7, [072], lines 1-17, [079], lines

1-15, [088], lines 1-18, [096], lines 1-16, [097], lines 1-5).

Regarding claim 39, Damnjanovic in view of Eibling teach all the limitations of claim 35,

and further, Damnjanovic teaches wherein the function of the incremental and

decremental power level adjustments is constrained to a limited number of quantized

levels *(see for example, paragraph [007], lines 1-23, [017], lines 1-25, [045], lines 1-16,*

[048], lines 1-7, [049], lines 1-13, [050], lines 1-19, [078], lines 1-13, [080], lines 1-19,

[081], lines 1-14, [082], lines 1-20, [084], lines 1-18, [086], lines 1-24).

Regarding claim 40, Damnjanovic in view of Eibling teach all the limitations of claim 30,

and further, Damnjanovic teaches wherein the base station is configured to determine

whether data received on each additional reverse-link channel contains errors *(see for*

example, Figures 1 and 3, paragraph [003], lines 1-14, [040], lines 1-18, [005], lines 1-

8, [036], lines 1-15, [040], lines 1-18, [051], lines 1-7, [072], lines 1-17, [079], lines 1-15, [097], lines 1-5, the base station transceiver subsystem (204) connected to the ..

antenna receiving reverse-link channel signals), and if the data received on the additional

reverse-link channel contains errors, incrementing the T/P ratio of the additional reverse-

link channel and *(see for example, Figures 1 and 3, paragraph [003], lines 1-14, [040],*

lines 1-18, [005], lines 1-8, [036], lines 1-15, [040], lines 1-18, [051], lines 1-7, [072],

lines 1-17, [079], lines 1-15, [097], lines 1-5, the base station transceiver subsystem

(204) connected to the antenna receiving reverse-link channel signals), if the data

received on the additional reverse-link channel does not contain errors, decrementing the

T/P ratio of the additional reverse-link channel *(see for example, Figures 1 and 3,*

paragraph [003], lines 1-14, [040], lines 1-18, [005], lines 1-8, [036], lines 1-15, [040],

lines 1-18, [051], lines 1-7, [072], lines 1-17, [079], lines 1-15, [097], lines 1-5, the base

station transceiver subsystem (204) connected to the antenna receiving reverse-link

channel signals).

Regarding claim 41, Damnjanovic in view of Eibling teach all the limitations of claim 30,

and further, Damnjanovic teaches wherein the base station is configured to send

messages indicating the incremented or decremented T/P ratio of the additional reverse-

link channel to a mobile station which is configured to set a power level of the additional

reverse-link channel in accordance with the messages *(see for example, Figures 1 and 3,*

paragraph [003], lines 1-14, [007], lines 1-23, [017], lines 1-25,   [040], lines 1-18,

[045], lines 1-16, [048], [049], [050], [072], lines 1-17, [075], [078], [079], lines 1-15,

[080], [081], [082], [086], and [084], [097], lines 1-5).

Conclusion

The prior art made of record considered pertinent to applicant's disclosure, see PTO-892 form.

Applicant's amendment necessitated the **new ground(s)** of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
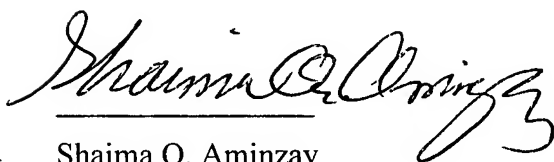
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shaima Q. Aminzay whose telephone number is 571-272-7874. The examiner can normally be reached on 7:00 AM -4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mathew D. Anderson can be reached on 571-272-4177. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shaima Q. Aminzay

(Examiner)

July 20, 2007

MATTHEW ANDERSON
SUPERVISORY PATENT EXAMINER